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OM protein - protein search, using sw model

Run on: September 12, 2005, 20:15:12 ; Search time 567 Seconds
(without alignments)
272.693 Million cell updates/sec

Title: US-10-734-698A-39

Perfect score: 2083
Sequence: 1 MAETFLFTSSVNEGHDPDKL.....GREDDPFTWEVVKLWKEA 392

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1777461 seqs, 39431504 residues

Total number of hits satisfying chosen parameters: 1777461

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

- Published Applications AA:*
- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
 - 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
 - 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
 - 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
 - 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
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 - 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
 - 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
 - 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
 - 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
 - 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
 - 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
 - 13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
 - 14: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
 - 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
 - 16: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
 - 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep:*
 - 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
 - 19: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
 - 20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
 - 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
 - 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2083	100.0	392	15	US-10-424-599-220046
2	2083	100.0	392	16	US-10-734-698A-39
3	2083	100.0	392	17	US-10-917-602A-39
4	2083	100.0	395	15	US-10-425-114-44212
5	2083	100.0	395	15	US-10-425-114-44833
6	2074	99.6	421	15	US-10-425-114-55424
7	2073	99.5	413	15	US-10-425-114-55057
8	2073	99.5	414	15	US-10-425-114-43817
9	2073	99.5	416	15	US-10-425-114-45713
10	2073	99.5	420	15	US-10-425-114-45878
11	2073	99.5	420	15	US-10-425-114-55959

12	2073	99.5	421	15	US-10-425-114-45874	Sequence 45874, A
13	2073	99.5	421	15	US-10-425-114-46284	Sequence 46284, A
14	2073	99.5	421	15	US-10-425-114-51724	Sequence 51724, A
15	2073	99.5	421	15	US-10-425-114-71917	Sequence 71917, A
16	2073	99.5	422	15	US-10-425-114-51415	Sequence 51415, A
17	2073	99.5	423	15	US-10-425-114-43754	Sequence 43754, A
18	2073	99.5	423	15	US-10-425-114-44216	Sequence 44216, A
19	2073	99.5	423	15	US-10-425-114-45712	Sequence 45712, A
20	2073	99.5	423	15	US-10-425-114-45723	Sequence 45723, A
21	2073	99.5	423	15	US-10-425-114-51430	Sequence 51430, A
22	2073	99.5	423	15	US-10-425-114-53367	Sequence 53367, A
23	2073	99.5	423	15	US-10-425-114-68219	Sequence 68219, A
24	2073	99.5	423	15	US-10-425-114-71903	Sequence 71903, A
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28	2073	99.5	423	15	US-10-425-114-71929	Sequence 71929, A
29	2073	99.5	423	15	US-10-425-114-71954	Sequence 71954, A
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32	2073	99.5	423	15	US-10-425-114-71969	Sequence 71969, A
33	2073	99.5	423	15	US-10-425-114-71975	Sequence 71975, A
34	2073	99.5	423	15	US-10-425-114-71992	Sequence 71992, A
35	2073	99.5	423	15	US-10-425-114-71993	Sequence 71993, A
36	2073	99.5	423	15	US-10-425-114-71994	Sequence 71994, A
37	2073	99.5	423	15	US-10-425-114-72190	Sequence 72190, A
38	2073	99.5	425	15	US-10-425-114-45846	Sequence 45846, A
39	2062.5	99.0	393	15	US-10-424-599-220047	Sequence 220047, A
40	2056.5	98.7	393	15	US-10-424-599-258237	Sequence 258237, A
41	2048.5	98.3	393	15	US-10-424-599-220043	Sequence 220043, A
42	1999	96.0	395	15	US-10-424-599-260160	Sequence 260160, A
43	1999	96.0	395	15	US-10-424-599-260162	Sequence 260162, A
44	1999	96.0	402	15	US-10-425-114-44433	Sequence 44433, A
45	1999	96.0	420	15	US-10-425-114-44746	Sequence 44746, A

ALIGNMENTS

RESULT 1
US-10-424-599-220046
; Sequence 220046, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovacic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 220046
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_40730C.1.pep
US-10-424-599-220046

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Best Local Similarity	100.0%;	Pred. No.	9.1e-191;				
Matches	392;	Conservative	0;	Mismatches	0;	Indels	0;
						Gaps	0;
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Db	1	MAETFLFTSSVNEGHDPDKL	CDQISDAVLDA	CDLEODPDSKVACETCTKTLNVVFG	FEIT 60		
QY	61	KANVDYKIVTRTCNIGFVSN	DVGLDADNCKVLNIEQ	QSPDIAQGVHGLTKRPE	ETG 120		
Db	61	KANVDYKIVTRTCNIGFVSN	DVGLDADNCKVLNIEQ	QSPDIAQGVHGLTKRPE	ETG 120		

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTEVRKNGTCFPLRPDGTQVTVVEYND 180
DB 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTEVRKNGTCFPLRPDGTQVTVVEYND 180
QY 181 NGAMVPRVHTVLI STQHDVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
DB 181 NGAMVPRVHTVLI STQHDVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPTKVDKRGAYIVRQAASIVASGLA 300
DB 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPTKVDKRGAYIVRQAASIVASGLA 300
QY 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKKEILNIVKENFDFRPGMISINLDLKRGN 360
DB 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKKEILNIVKENFDFRPGMISINLDLKRGN 360
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
DB 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392

RESULT 2
US-10-734-698A-39
; Sequence 39, Application US/10734698A
; Publication No. US20040209341A1
; GENERAL INFORMATION:
; APPLICANT: FALCO, SAVERIO CARL
; ALLEN, STEPHEN M.
; RAFALSKI, J. ANTONI
; HITZ, WILLIAM D.
; KINNEY, ANTHONY J.
; ABELL, LYNN N.
; THORPE, CATHERINE J.
; TITLE OF INVENTION: PLANT AMINO ACID BIOSYNTHETIC ENZYMES
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
; STREET: 1007 MARKET STREET
; CITY: WILMINGTON
; STATE: DELAWARE
; COUNTRY: USA
; ZIP: 19898
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.50 INCH
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: MICROSOFT WINDOWS 95
; SOFTWARE: MICROSOFT WORD VERSION 7.0A
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/734,698A
; FILING DATE: 12-Dec-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/048,771
; FILING DATE: 6-Jun-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: MAJARIAN, WILLIAM R.
; REGISTRATION NUMBER: 41,173
; REFERENCE/DOCKET NUMBER: BB-1087
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 302-992-4926
; TELEFAX: 302-773-0164
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 392 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: 82.12D06
; SEQUENCE DESCRIPTION: SEQ ID NO: 39:
US-10-734-698A-39

Query Match 100.0%; Score 2083; DB 16; Length 392;
Best Local Similarity 100.0%; Pred. No. 9.1e-191;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MAETFLFTSESVNEGHDPDKLQDISDAVLDAQLDQDPDSKVACETCTKTNLVMVFEITTT 60
QY 61 KANVDYEKIVRDTCRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVHGLTKRPEEIG 120
DB 61 KANVDYEKIVRDTCRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVHGLTKRPEEIG 120
QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTEVRKNGTCFPLRPDGTQVTVVEYND 180
DB 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTEVRKNGTCFPLRPDGTQVTVVEYND 180
QY 181 NGAMVPRVHTVLI STQHDVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
DB 181 NGAMVPRVHTVLI STQHDVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPTKVDKRGAYIVRQAASIVASGLA 300
DB 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPTKVDKRGAYIVRQAASIVASGLA 300
QY 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKKEILNIVKENFDFRPGMISINLDLKRGN 360
DB 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKKEILNIVKENFDFRPGMISINLDLKRGN 360
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
DB 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392

RESULT 3
US-10-917-602A-39
; Sequence 39, Application US/10917602A
; Publication No. US20050120405A1
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Liu, Zhan-Bin
; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes
; FILE REFERENCE: BB-1087 US CIP
; CURRENT APPLICATION NUMBER: US/10/917,602A
; CURRENT FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: US 10/734698
; PRIOR FILING DATE: 2003-12-12
; PRIOR APPLICATION NUMBER: US 09/424978
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US98/11692
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/049,443
; PRIOR FILING DATE: 1997-06-12
; PRIOR APPLICATION NUMBER: US 60/048,771
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 39
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Glycine max
US-10-917-602A-39

Query Match 100.0%; Score 2083; DB 17; Length 392;
Best Local Similarity 100.0%; Pred. No. 9.1e-191;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MAETFLFTSESVNEGHDPDKLQDISDAVLDAQLDQDPDSKVACETCTKTNLVMVFEITTT 60
QY 61 KANVDYEKIVRDTCRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVHGLTKRPEEIG 120

Db 61 KANVDYKIVRDTCRNIGFVNSDVGDLADNCKVLVNIQQSPDIAQGVGHGHLTKRPEEIG 120
QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 180
Db 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 180
QY 181 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
Db 181 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
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Db 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKSGAYIVRQAASIVASGLA 300
QY 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 360
Db 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 360
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
Db 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
RESULT 4
US-10-425-114-44212
; Sequence 44212, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44212
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700896469_FLI.pep
US-10-425-114-44212
Query Match 100.0%; Score 2083; DB 15; Length 395;
Best Local Similarity 100.0%; Pred. No. 9.2e-191;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 4 MAETFLTSESNEGHDPDKLQDISDAVLDALEQDPDSKVACETCTKTNLVMVFGEIIT 63
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Db 64 KANVDYKIVRDTCRNIGFVNSDVGDLADNCKVLVNIQQSPDIAQGVGHGHLTKRPEEIG 123
QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 180
Db 124 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 183
QY 181 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
Db 184 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 243
QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKSGAYIVRQAASIVASGLA 300
Db 244 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKSGAYIVRQAASIVASGLA 303
QY 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 360
Db 304 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 363
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
Db 364 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 395

Db 304 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 363
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
Db 364 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 395
RESULT 5
US-10-425-114-44833
; Sequence 44833, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44833
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701150545_FLI.pep
US-10-425-114-44833
Query Match 100.0%; Score 2083; DB 15; Length 395;
Best Local Similarity 100.0%; Pred. No. 9.2e-191;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MAETFLTSESNEGHDPDKLQDISDAVLDALEQDPDSKVACETCTKTNLVMVFGEIIT 60
Db 4 MAETFLTSESNEGHDPDKLQDISDAVLDALEQDPDSKVACETCTKTNLVMVFGEIIT 63
QY 61 KANVDYKIVRDTCRNIGFVNSDVGDLADNCKVLVNIQQSPDIAQGVGHGHLTKRPEEIG 120
Db 64 KANVDYKIVRDTCRNIGFVNSDVGDLADNCKVLVNIQQSPDIAQGVGHGHLTKRPEEIG 123
QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 180
Db 124 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 183
QY 181 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
Db 184 NGAMPVVRVHTVLISQHDSTVTNDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 243
QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKSGAYIVRQAASIVASGLA 300
Db 244 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKSGAYIVRQAASIVASGLA 303
QY 301 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 360
Db 304 RRCIVQVSYAIGVPEPLSVFVDYTGKIHDKIILNIVKENFDFRPGMISINLDLKRGN 363
QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
Db 364 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 395
RESULT 6
US-10-425-114-55424
; Sequence 55424, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua

```
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 55424
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-GMFLMINSOY064D01_FLI.pep
US-10-425-114-55057

Query Match          99.6%; Score 2074; DB 15; Length 421;
Best Local Similarity 99.5%; Pred. No. 7.4e-190;
Matches 390; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 60
DB 30 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 89

QY 61 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 120
DB 90 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 149

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKRNKGTCPWLRPDGKTQVTVEYND 180
DB 150 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKRNKGTCPWLRPDGKTQVTVEYND 209

QY 181 NGAMVPVRVHTVLISQHDQETVNDIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFV 240
DB 210 NGARVPVRVHTVLISQHDQETVNDIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFV 269

QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKRGAYIVRQAASIVASGLA 300
DB 270 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKRGAYIVRQAASIVASGLA 329

QY 301 RRCIVQVSAIGAIVPEPLSVFVDTYGTGKIHDKEILNIVKENFDFRPGMISINLDLKRGN 360
DB 330 RRCIVQVSAIGAIVPEPLSVFVDTYGTGKIHDKEILNIVKENFDFRPGMISINLDLKRGN 389

QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
DB 390 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 421

RESULT 7
US-10-425-114-55057
; Sequence 55057, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 55057
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-GMFLMINSOY064D01_FLI.pep
US-10-425-114-55057

Query Match          99.5%; Score 2073; DB 15; Length 414;
Best Local Similarity 99.2%; Pred. No. 9e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 60
DB 23 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 82

QY 61 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 120
DB 83 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 142
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; OTHER INFORMATION: Clone ID: 701211701_FLI.pep
US-10-425-114-55057

Query Match          99.5%; Score 2073; DB 15; Length 413;
Best Local Similarity 99.2%; Pred. No. 8.9e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 60
DB 22 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 81

QY 61 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 120
DB 82 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 141

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKRNKGTCPWLRPDGKTQVTVEYND 180
DB 142 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKRNKGTCPWLRPDGKTQVTVEYND 201

QY 181 NGAMVPVRVHTVLISQHDQETVNDIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFV 240
DB 202 NGARVPVRVHTVLISQHDQETVNDIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFV 261

QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKRGAYIVRQAASIVASGLA 300
DB 262 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGDKPTKVDKRGAYIVRQAASIVASGLA 321

QY 301 RRCIVQVSAIGAIVPEPLSVFVDTYGTGKIHDKEILNIVKENFDFRPGMISINLDLKRGN 360
DB 322 RRCIVQVSAIGAIVPEPLSVFVDTYGTGKIHDKEILNIVKENFDFRPGMISINLDLKRGN 381

QY 361 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 392
DB 382 NRFLKTAAYGHFGREDPDFTWEVVKPLKWEKA 413
```

```
RESULT 8
US-10-425-114-43817
; Sequence 43817, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 43817
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700649684_FLI.pep
US-10-425-114-43817

Query Match          99.5%; Score 2073; DB 15; Length 414;
Best Local Similarity 99.2%; Pred. No. 9e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 60
DB 23 MAETFLFTSESNEGHDPDKLDCQISDAVLDAACLEODPDPSKVACETCTKTNLVMVFGTEIT 82

QY 61 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 120
DB 83 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQQSPDIAQQVGHGLTKRPEEIG 142
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Qy	121	AGQGHMFYATDTEPMLPSHVLTATKLGARLTVVRKNGTCPWLRDPDGKTQTUTVEYYND	180
Dd	143	AGQGHMFYATDTEPMLPSHVLTATKLGARLTVVRKNGTCPWLRDPDGKTQTUTVEYYND	202
Qy	181	NGAMVPRVHTVLISIQDHETTNDDEIAADLKEHVIKEPIPEKYLDSEKITFHLNPSGRFV	240
Dd	203	NGARVIPRVHTVLISIQDHETTNDDEIAADLKEHVIKEPIPEKYLDSEKITFHLNPSGRFV	262
Qy	241	IGPHGDAGLTGRKIIIDITYGWHGGAGGAFSGKDPTKVDRSGAIIVRQAASIVASGLA	300
Dd	263	IGPHGDAGLTGRKIIIDITYGWHGGAGGAFSGKDPTKVDRSGAIIVRQAASIVASGLA	322
Qy	301	RRCICVOVSVAIGVPPEPLSVFVDYGTGKIHKELINIVKENFDPRPGMI SINILDLKRGGN	360
Dd	323	RRCICVOVSVAIGVPPEPLSVFVDYGTGKIHKELINIVKENFDPRPGMI SINILDLKRGGN	382
Qy	361	NRFELKTAAYCHGFREDPDFTWEVVKPLKWKA	392
Dd	383	NRFELKTAAYCHGFREDPDFTWEVVKPLKWKA	414

```

RESULT 9
US-10-425-114-45713
; Sequence 45713, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 45713
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700894196_FLI.pep
US-10-425-114-45713

```

Query Match	99.5%;	Score 2073;	DB 15;	Length 416;
Best Local Similarity	99.2%;	Pred. No. 9e-190;		
Matches 389;	Conservative 2;	Mismatches 1;	Indels 0;	Gaps 0
Qy	1	MAETFLPTSSEVNEGHPOKLCDOISDAVLDAACLEQDPDSKVACETCTKTNLVMVFGSEITT	60	
Db	25	MAETFLPTSSEVNEGHPOKLCDOISDAVLDAACLEQDPDSKVACETCTKTNLVMVFGSEITT	84	
Qy	61	KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIIEQQSPDIAQCVGHGHLTKRPEEIG	120	
Db	85	KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLVNIIEQQSPDIAQCVGHGHLTKRPEEIG	144	
Qy	121	AGDQGHMFGYATDETPELMPLSHVLAATKLGARLTEVVRKNGTGPWLPRDPDGKTQTVVEYYND	180	
Db	145	AGDQGHMFGYATDETPELMPLSHVLAATKLGARLTEVVRKNGTGPWLPRDPDGKTQTVVEYYND	204	
Qy	181	NGAMPVVRVHTVLIISTQHDETVTNDEITAADLKEHVIRKPIPEKYLDEKTI FHLNPSGREV	240	
Db	205	NGARVPVRVHTVLIISTQHDETVTNDEITAADLKEHVIRKPIPEKYLDEKTI FHLNPSGREV	264	
Qy	241	IGGPHGDAGLTCRKIIIDTYGCGAHGGGAFSGKDPDKVDRSGAYIVROAAKSIVASGLA	300	
Db	265	IGGPHGDAGLTCRKIIIDTYGCGAHGGGAFSGKDPDKVDRSGAYIVROAAKSIVASGLA	324	
Qy	301	RRCIVQVSVAIGVPPEPLSVFVDVTYGTGKIHDKEITLNVKSNFDRFGMISINLDLKRGN	360	
Db	325	RRCIVQVSVAIGVPPEPLSVFVDVTYGTGKIHDKEITLNVKSNFDRFGMISINLDLKRGN	384	

Qy	361	NRF	L	T	A	A	G	H	F	G	R	E	D	D	F	T	W	E	V	V	K	L	K	W	E	K	A	392
Db	385	NRF	L	T	A	A	G	H	F	G	R	E	D	D	F	T	W	E	V	V	K	L	K	W	E	K	A	416

```

RESULT 10
US-10-425-114-45878
Sequence 45878, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 45878
LENGTH: 420
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: 701040251_FLI.pep
US-10-425-114-45878

```

Query Match	99.5%;	Score 2073;	DB 15;	Length 420;
Best Local Similarity	99.2%;	Pred. No. 9.2e-190;		
Matches 389;	Conservative 2;	Mismatches 1;	Indels 0;	Gaps 0
QY	1	MAETFLPTSSVNEGHPDKLCDQISDAVLADACLQBDPDSKVACETCTKTNLVVMVGEIT	60	
DB	29	MAETFLPTSSVNEGHPDKLCDQISDAVLADACLQBDPDSKVACETCTKTNLVVMVGEIT	88	
QY	61	KANVDYEKIVRDTCRNITGFVNSNDVGLDADNCKVLVNIEQQSPDIAQGVGHHLTKRPEEIG	120	
DB	89	KANVDYEKIVRDTCRNITGFVNSNDVGLDADNCKVLVNIEQQSPDIAQGVGHHLTKRPEEIG	148	
QY	121	AGDQGHMFGYATDETPSLMPLSHVLATKLGARLTVERNKNGCPMLRDPGKTQVTVEYND	180	
DB	149	AGDQGHMFGYATDETPSLMPLSHVLATKLGARLTVERNKNGCPMLRDPGKTQVTVEYND	208	
QY	181	NGAMVPRVHTVLISTQHDETVTNDEIAADLKEHVIKPVIPEKYLDKXTIIFHLNPSGRFV	240	
DB	209	NGARVPIRVHTVLISTQHDETVTNDEIAADLKEHVIKPVIPEKYLDKXTIIFHLNPSGRFV	268	
QY	241	IGGPHGDAGLTGRKIIIDTTCGGWGAHGGGAFSGKDPTKVDBSGAYIVROAKSIVASGLA	300	
DB	269	IGGPHGDAGLTGRKIIIDTTCGGWGAHGGGAFSGKDPTKVDBSGAYIVROAKSIVASGLA	328	
QY	301	RRCICVQVSYAIGVPEPLSVFVDVTGTGKIHDKETLNIWKENFDFRPGMISINLDLKRGN	360	
DB	329	RRCICVQVSYAIGVPEPLSVFVDVTGTGKIHDKETLNIWKENFDFRPGMISINLDLKRGN	388	
QY	361	NRELTKTAAAYGHGREDPDFTWEEVVKPLUKWEKA	392	
DB	389	NRELTKTAAAYGHGREDPDFTWEEVVKPLUKWEKA	420	

RESULT 11
US-10-423-114-55959
; Sequence 55959, Application US/10425114
; Publication No. US20040034898A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.

```
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 55959
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701123183_FLI.pap
US-10-425-114-45959
```

```
Query Match          99.5%; Score 2073; DB 15; Length 420;
Best Local Similarity 99.2%; Pred. No. 9.2e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 60
Db 29 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 88

QY 61 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 120
Db 89 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 148

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKXNGTCPLWRPDGKTQVTVYYND 180
Db 149 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKXNGTCPLWRPDGKTQVTVYYND 208

QY 181 NGAMPVVRVHTVLISTQHDENVNDEIAADLKEHVIKPVIPKYLDEKTIIFHLNPSGRFV 240
Db 209 NGARPVIRVHTVLISTQHDENVNDEIAADLKEHVIKPVIPKYLDEKTIIFHLNPSGRFV 268

QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAPSGKDPKVDKRGAYIVRQAASIVASGLA 300
Db 269 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAPSGKDPKVDKRGAYIVRQAASIVASGLA 328

QY 301 RRCIVQVSYAIGVPEPLSVFVDTYGTCKIHDKELINIVKENFDFRPGMISINLDLKRGN 360
Db 329 RRCIVQVSYAIGVPEPLSVFVDTYGTCKIHDKELINIVKENFDFRPGMISINLDLKRGN 388

QY 361 NRFLKTAAYGHGFGREDPDTFWEVVKPLKWEKA 392
Db 389 NRFLKTAAYGHGFGREDPDTFWEVVKPLKWEKA 420
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```
RESULT 12
US-10-425-114-45974
; Sequence 45874, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 45874
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701001311_FLI.pap
US-10-425-114-45874
```

```
Query Match          99.5%; Score 2073; DB 15; Length 421;
Best Local Similarity 99.2%; Pred. No. 9.2e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 60
Db 30 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 89

QY 61 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 120
Db 90 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 149

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKXNGTCPLWRPDGKTQVTVYYND 180
Db 150 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKXNGTCPLWRPDGKTQVTVYYND 209

QY 181 NGAMPVVRVHTVLISTQHDENVNDEIAADLKEHVIKPVIPKYLDEKTIIFHLNPSGRFV 240
Db 210 NGARPVIRVHTVLISTQHDENVNDEIAADLKEHVIKPVIPKYLDEKTIIFHLNPSGRFV 269

QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAPSGKDPKVDKRGAYIVRQAASIVASGLA 300
Db 270 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAPSGKDPKVDKRGAYIVRQAASIVASGLA 329

QY 301 RRCIVQVSYAIGVPEPLSVFVDTYGTCKIHDKELINIVKENFDFRPGMISINLDLKRGN 360
Db 330 RRCIVQVSYAIGVPEPLSVFVDTYGTCKIHDKELINIVKENFDFRPGMISINLDLKRGN 389

QY 361 NRFLKTAAYGHGFGREDPDTFWEVVKPLKWEKA 392
Db 390 NRFLKTAAYGHGFGREDPDTFWEVVKPLKWEKA 421
```

```
RESULT 13
US-10-425-114-46284
; Sequence 46284, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 46284
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701137731_FLI.pap
US-10-425-114-46284
```

```
Query Match          99.5%; Score 2073; DB 15; Length 421;
Best Local Similarity 99.2%; Pred. No. 9.2e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 60
Db 30 MAETFLFTSESNEGHPDKLDCQISDAVLDALEQDPDSKVACETCTKTNLVMVFEIT 89

QY 61 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 120
Db 90 KANVDYEKIVRDTCTRNIGFVSNVGLDADNCKVLVNIQQSPDIAQGVGHGHLTKRPEIG 149

QY 121 AGDQGHMFGYATDETPELMPLSHVLATKLGARLTVKXNGTCPLWRPDGKTQVTVYYND 180
```

```
Db 150 AGDQGHMFGVATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 209
Qy 181 NGAMVPRVHTVLISQHDVTNDDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
Db 210 NGARVPIRVHTVLISQHDVTNDDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 269
Qy 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKPTKVDKRS GAYIVRQAASIVASGLA 300
Db 270 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKPTKVDKRS GAYIVRQAASIVASGLA 329
Qy 301 RRCIVQVSAIGVPEPLSVFVDTYGTGKIHDKEILNI VKENFDFRPGMISINLDKRCGN 360
Db 330 RRCIVQVSAIGVPEPLSVFVDTYGTGKIHDKEILNI VKENFDFRPGMISINLDKRCGN 389
Qy 361 NRFLKTAAYGHGFGREDPDFTWEVVKPLKWEKA 392
Db 390 NRFLKTAAYGHGFGREDPDFTWEVVKPLKWEKA 421

RESULT 14
US-10-425-114-51724
; Sequence 51724, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 51724
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700961178_FLI.pep
US-10-425-114-51724

Query Match 99.5%; Score 2073; DB 15; Length 421;
Best Local Similarity 99.2%; Pred. No. 9.2e-190;
Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAETFLFTSES VNEGHDPDKLDCQISDAVLDAACLEQDPDSKVACETCTKTNLVMVFGEIT 60
Db 30 MAETFLFTSES VNEGHDPDKLDCQISDAVLDAACLEQDPDSKVACETCTKTNLVMVFGEIT 89
Qy 61 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGVHGH LTKRPEEIG 120
Db 90 KANVDYEKIVRDTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGVHGH LTKRPEEIG 149
Qy 121 AGDQGHMFGVATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 180
Db 150 AGDQGHMFGVATDETPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVVEYND 209
Qy 181 NGAMVPRVHTVLISQHDVTNDDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 240
Db 210 NGARVPIRVHTVLISQHDVTNDDEIAADLKEHVIKPVIPKYLDEKTI FHLNPSGRFV 269
Qy 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKPTKVDKRS GAYIVRQAASIVASGLA 300
Db 270 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKPTKVDKRS GAYIVRQAASIVASGLA 329
Qy 301 RRCIVQVSAIGVPEPLSVFVDTYGTGKIHDKEILNI VKENFDFRPGMISINLDKRCGN 360
Db 330 RRCIVQVSAIGVPEPLSVFVDTYGTGKIHDKEILNI VKENFDFRPGMISINLDKRCGN 389
Qy 361 NRFLKTAAYGHGFGREDPDFTWEVVKPLKWEKA 392
Db 390 NRFLKTAAYGHGFGREDPDFTWEVVKPLKWEKA 421
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Search completed: September 12, 2005, 21:10:57
Job time : 569 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 12, 2005, 14:28:42 ; Search time 30 Seconds
(without alignments)
975.414 Million cell updates/sec

Title: US-10-734-698A-39
Perfect score: 2083
Sequence: 1 MAETFLFTSESNEGHDPDKL.....GREDDPTWVVKPLWKA 392

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pdp.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pdp.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pdp.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pdp.*
- 5: /cgn2_6/ptodata/1/iaa/PTUS COMB.pdp.*
- 6: /cgn2_6/ptodata/1/iaa/backfilee1.pdp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2083	100.0	392	4	US-09-424-978B-39 Sequence 39, Appl
2	1946	93.4	396	4	US-09-424-978B-36 Sequence 36, Appl
3	1891.5	90.8	394	4	US-09-424-978B-42 Sequence 42, Appl
4	1316.5	63.2	395	4	US-09-976-594-471 Sequence 471, Appl
5	1316.5	63.2	416	4	US-09-949-016-10059 Sequence 10059, A
6	1280.5	61.5	390	4	US-09-248-796A-18255 Sequence 18255, A
7	1274.5	61.2	395	4	US-09-949-016-5939 Sequence 5939, Ap
8	1274.5	61.2	401	4	US-09-949-016-7658 Sequence 7658, Ap
9	1102	52.9	404	4	US-09-107-532A-6821 Sequence 6821, Ap
10	1086	52.1	387	4	US-09-543-681A-7130 Sequence 7130, Ap
11	1068.5	51.3	385	4	US-09-489-039A-11917 Sequence 11917, A
12	1062.5	51.0	396	4	US-09-583-110-2778 Sequence 2778, Ap
13	1028.5	49.4	405	4	US-09-107-433-2830 Sequence 2830, Ap
14	1061.5	51.0	396	3	US-09-373-686-2 Sequence 2, Appl
15	1055	50.6	395	4	US-09-328-352-6660 Sequence 6660, Ap
16	1042.5	50.0	415	3	US-09-134-001C-5077 Sequence 5077, Ap
17	1040	49.9	388	4	US-09-540-236-3444 Sequence 3444, Ap
18	1028.5	49.4	402	2	US-08-403-852D-19 Sequence 19, Appl
19	1028.5	49.4	402	3	US-08-510-646B-20 Sequence 20, Appl
20	1028.5	49.4	402	3	US-09-231-818-19 Sequence 19, Appl
21	1028.5	49.4	402	4	US-09-635-359B-19 Sequence 2, Appl
22	1006	48.3	407	3	US-08-955-957A-2 Sequence 2, Appl
23	1000.5	48.0	401	4	US-09-252-991A-19899 Sequence 19899, A
24	832	39.9	332	3	US-09-320-878-16 Sequence 16, Appl
25	832	39.9	332	4	US-09-141-908-20 Sequence 20, Appl
26	832	39.9	332	4	US-09-657-440-16 Sequence 16, Appl
27	803.5	38.6	313	4	US-09-902-540-10716 Sequence 10716, A

ALIGNMENTS

RESULT 1

US-09-424-978B-39

; Sequence 39, Application US/09424978B

; Patent No. 6664445

; GENERAL INFORMATION:

; APPLICANT: Falco, Saverio Carl

; APPLICANT: Allen, Stephen M.

; APPLICANT: Rafalski, J. Antoni

; APPLICANT: Hitz, William D.

; APPLICANT: Kinney, Anthony J.

; APPLICANT: Abell, Lynne N.

; APPLICANT: Thorpe, Catherine J.

; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes

; FILE REFERENCE: BB-1087

; CURRENT APPLICATION NUMBER: US/09/424,978B

; CURRENT FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: US 60/048,771

; PRIOR FILING DATE: 1997-06-06

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 39

; LENGTH: 392

; TYPE: PRT

; ORGANISM: Glycine max

US-09-424-978B-39

Query Match 100.0%; Score 2083; DB 4; Length 392;

Best Local Similarity 100.0%; Pred. No. 4.1e-212; Mismatches 0; Indels 0; Gaps 0;

Matches 392; Conservative 0;

QY 1 MAETFLFTSESNEGHDPDKLSDAVIDADLEQDDPSKVACETCTKTNLVWFGEIT 60

Db 1 MAETFLFTSESNEGHDPDKLSDAVIDADLEQDDPSKVACETCTKTNLVWFGEIT 60

QY 61 KANVDYKIVRDTTCNIGFVSNVDGLDADNCKVLNIEQQSPDIAGQVGHGHLTKRPEIG 120

Db 61 KANVDYKIVRDTTCNIGFVSNVDGLDADNCKVLNIEQQSPDIAGQVGHGHLTKRPEIG 120

QY 121 AGDQGHMGYATDETPPELMLPSHLVATKLGARLTVRNKGTCPWLRPDGKTQVTVEYND 180

Db 121 AGDQGHMGYATDETPPELMLPSHLVATKLGARLTVRNKGTCPWLRPDGKTQVTVEYND 180

QY 181 NGAMPVVRVHTVLISTQHDVTWNDEIAADLKEHVIKPEIKYDEKTIIFHLNPSGRFV 240

Db 181 NGAMPVVRVHTVLISTQHDVTWNDEIAADLKEHVIKPEIKYDEKTIIFHLNPSGRFV 240

QY 241 IGGPHGDAGLTKRKIIIDTYGSGAHGGGAFSGKDPKTKVDRSGAYIVRQAASIVASGLA 300

Db 241 IGGPHGDAGLTKRKIIIDTYGSGAHGGGAFSGKDPKTKVDRSGAYIVRQAASIVASGLA 300

Qy	301	RCRCIVQVSYAIGVPEPLSVFVDTTGTGKHDKETILNIVKENDFRPGCMISINLDLKRGN	360
Db	301	RCRCIVQVSYAIGVPEPLSVFVDTTGTGKHDKETILNIVKENDFRPGCMISINLDLKRGN	360
Qy	361	NRFLLKTAAYGHFGREDPDFTWEVVKPLKWEKA	392
Db	361	NRFLLKTAAYGHFGREDPDFTWEVVKPLKWEKA	392

```

RESULT 2
US-09/424-978B-36
; Sequence 36, Application US/09424978B
; Patent No. 6664445
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Allen, Stephen M.
; APPLICANT: Rafalski, J. Antoni
; APPLICANT: Hitz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Abell, Lynne N.
; APPLICANT: Thorpe, Catherine J.
; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes
; FILE REFERENCE: BB-1087
; CURRENT APPLICATION NUMBER: US/09/424.978B

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Query Match	93.48;	Score 1946;	DB 4;	Length 396;	
Best Local Similarity	93.36;	Pred. No. 1.4e-197;			
Matches 363; Conservative	14;	Mismatches 12;	Indels 0;	Gaps 0;	
Qy	3	ETFLFTSESVNEGHPDKLC	QIQISDAVLDADCLAEQDPDSKVACETCTKTNLMVVFGEITTKA	62	
Db	5	DTFLFTSESVNEGHPDKLC	QOVSDAVLDADCLAEQDPDSKVACETCTKTNLMVVFGEITTKA	64	
Qy	63	NVDYEKIVRTCRNIGFV	SDNVDGLDADNCKVLVNI	EQSGPDIAQGVIGHLTKRPEETGAG 122	
Db	65	NVDYEKIVRETCRNIGFV	SDNVDGLDADHCKVLVNI	EQSQPDIAQGVHGHFTKRPEETGAG 124	
Qy	123	DOGHMFYATDENPELMP	LSHVLATKLGLARL	TEVRKNGTCCPLRPDCKGTQTVTVVYNDNG 182	
Db	125	DOGHMFYATDETPELMP	LSHVLATKLGLARL	TEVRKNGTCCPLRPDCKGTQTVTVYRNEGG 184	
Qy	183	AMVPRVHTVLVLI	STQHDDETVDNDEIAADL	KEHVTKPVIPEKYLDEKTI	FHLNPSGRFVIG 242
Db	185	AMVPIRVHTVLVLI	STQHDDETVDNDEIAADL	KEHVTKPVIPEQYLDEKTI	FHLNPSGRFVIG 244
Qy	243	GPHGDAGLITGRKII	IIDTYGGWGAHGGGA	FGSKDPTKVDRS	GAYIVROAAKSIVASGLARR 302
Db	245	GPHGDAGLITGRKII	IIDTYGGWGAHGGGA	FGSKDPTKVDRS	GAYIVARQAASIVASGLARR 304
Qy	303	CIVQVSVAIGVPEPLS	VFVDYTGTKTHDKEL	INVKENPFR	PGMTSINLDLRKGGNNR 362
Db	305	AIVQVSVAIGVPEPLS	VFVDYTGTAIPDKEL	ILKIVKENPFR	PGMTIINLDLKKGGNR 364
Qy	363	FLKTAAYGHFGRED	PDFTWEVVKPLKWEK	391	
Db	365	YLKTAAYGHFGRED	PDFTWEVVKPLKSEK	393	

RESULT 3
US-09-424-978B-42
; Sequence 42, Application US/09424978B
; Patent No. 6664445
; GENERAL INFORMATION:

/ APPLICANT: Falco, Saverio Carl
 / APPLICANT: Allen, Stephen M.
 / APPLICANT: Rafalski, J. Antoni
 / APPLICANT: Hitz, William D.
 / APPLICANT: Kinney, Anthony J.
 / APPLICANT: Abell, Lynne N.
 / APPLICANT: Thorpe, Catherine J.
 / TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes

Query Match	90.8%;	Score 1891.5;	DB 4;	Length 394;
Best Local Similarity	90.8%;	Pred. No. 8.7e-192;		
Matches 355;	Conservative 18;	Mismatches 17;	Indels 1;	Gaps 1
Qy	2	AETFLFTSESNGHPDKLDCQISDAVLDA	ACLEODPDSKVACETCTKTNLVMVGEIITK	61
Db	3	AETFLFTSESNGHPDKLDCQVSDA	VLDAQLAQDADSKVACETVTKTNVMVLEIITK	62
Qy	62	ANYDYEKIVRDTCRNIGFVSN	DVGLDADNCKVLNIEQQSPDIAQGVHGHITKRPETGA	121
Db	63	ATVDYEKIVRDTCRNIGFISDD	VGLDADNRCKVLNIEQQSPDIAQGVHGHITKRPPEVGA	122
Qy	122	GDQGHMFGYATDETPELMPLSHVLA	TGKGARLTVSRKNGTCPLWRDQKTCQVTVVEYNDN	181
Db	123	GDQGMIFGYATDETPELMPLKHLVLA	TGKGARLTVSRKNGTCQWVRDQKTCQVTVVEYLNED	182
Qy	182	GAMVPVRVHTLVLISTQHD	ETVTNDEIAADLKEHVIKVPIPEKYLDKETIFHLNPSGRFVI	241
Db	183	GAMVPVRVHTLVLISTQHD	ETVTNDEIAADLKEHVIKVPIPAKYLDENTIFHLNPSGRFVI	242
Qy	242	GGPHGDAGLTGRKIIIDTYCGW	GAHGGGASGKDPTKVDRSGAVIVROAAKSIIVASGLAR	301
Db	243	GGPHGDAGLTGRKIIIDTYCGW	GAHGGGASGKDPTKVDRSGAVIARQAAKSIIVASGLAR	302
Qy	302	RCIVQVSYSATGVPEPLSVFVD	TYGTGKIHKDKEIILNIVKENPDRFPGMITISINLDLKRGGNN	361
Db	303	RCIVQISYSATGVPEPLSVFV	DSYGTGKIIPDREILKLVKENPDRFPGMITISINLDLKKGG-N	361
Qy	362	RFLKTAAYGHFGREDPDFT	WEVVKPLKWEKA	392
Db	362	RFTKTAAYGHFGRDDADPT	WEVVKPLKFEDKA	392

RESULT 4
US-09-976-594-471
; Sequence 471, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:

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? GENERAL INFORMATION:
? APPLICANT: Furness, Michael
? APPLICANT: Buchbinder, Jenny
? TITLE OF INVENTION: GENES EXPRESSED IN C3
? FILE REFERENCE: PA-0041 US
? CURRENT APPLICATION NUMBER: US/09/976,594
? CURRENT FILING DATE: 2001-10-12
? PRIOR APPLICATION NUMBER: 60/240,409
? PRIOR FILING DATE: 2000-10-12
? NUMBER OF SEQ ID NOS: 1143
? SOFTWARE: PERL Program
? SEQ ID NO 471
? LENGTH: 395
? TYPE: PRT
? ORGANISM: Homo sapiens
?

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;
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 2600262CD1
US-09-976-594-471

Query Match      63.2%; Score 1316.5; DB 4; Length 395;
Best Local Similarity 65.8%; Pred. No. 9.2e-131;
Matches 254; Conservative 49; Mismatches 76; Indels 7; Gaps 3;

QY 4 TELFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKAN 63
DB 17 TELFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKAN 76

QY 64 VDYKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGV--HLDRNEEDIGAGD 123
DB 77 VDYKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGV--HLDRNEEDIGAGD 134

QY 124 QGHMFGYATDETEPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVYYNDNGA 183
DB 135 QGLMFGYATDETEECMPLTIVLAHKLNAKLAELRRNGTLPLWRPDSKTQVTVYQMDRGA 194

QY 184 MYPVRVHTVLISTQHDVTNDEIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFVIGG 243
DB 195 VLPIRVHTTIVISVQHDDEEVLCDMDRALKEKVIKAVVPAKYLDDEDTIYHLQPSGRFVIGG 254

QY 244 PHGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDPYTKVDKRSAGYIVRQAASIVASGLARRC 303
DB 255 PQGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDYTKVDKRSAAAYAAARWAKSLVKGGLCRV 314

QY 304 IQVQSYAIGVPEPLSVFVDYTGCTGKHDKKEILNIVKENPDRPFGMISINLDRKGGNNRP 363
DB 315 LVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKK---PIY 371

QY 364 LKTAAYGHGREDPDTWEVVKPLKW 389
DB 372 QRTAAYGHGFRD--SFPWEVPKPKLY 395

RESULT 5
US-09-949-016-10059
; Sequence 10059, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10059
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10059

Query Match      63.2%; Score 1316.5; DB 4; Length 416;
Best Local Similarity 65.8%; Pred. No. 1e-130;
Matches 254; Conservative 49; Mismatches 76; Indels 7; Gaps 3;

QY 4 TELFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKAN 63
DB 38 TELFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKAN 97

QY 64 VDYKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGV--HLDRNEEDIGAGD 123
DB 77 VDYKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGV--HLDRNEEDIGAGD 134
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DB 98 VDYKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGV--HLDRNEEDIGAGD 155
QY 124 QGHMFGYATDETEPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVYYNDNGA 183
DB 156 QGLMFGYATDETEECMPLTIVLAHKLNAKLAELRRNGTLPLWRPDSKTQVTVYQMDRGA 215
QY 184 MYPVRVHTVLISTQHDVTNDEIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFVIGG 243
DB 216 VLPIRVHTTIVISVQHDDEEVLCDMDRALKEKVIKAVVPAKYLDDEDTIYHLQPSGRFVIGG 275

QY 244 PHGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDPYTKVDKRSAGYIVRQAASIVASGLARRC 303
DB 276 PQGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDYTKVDKRSAAAYAAARWAKSLVKGGLCRV 335

QY 304 IQVQSYAIGVPEPLSVFVDYTGCTGKHDKKEILNIVKENPDRPFGMISINLDRKGGNNRP 363
DB 336 LVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKK---PIY 392

QY 364 LKTAAYGHGREDPDTWEVVKPLKW 389
DB 393 QRTAAYGHGFRD--SFPWEVPKPKLY 416

RESULT 6
US-09-248-796A-18255
; Sequence 18255, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA
; FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18255
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18255

Query Match      61.5%; Score 1280.5; DB 4; Length 390;
Best Local Similarity 62.5%; Pred. No. 6e-127;
Matches 242; Conservative 56; Mismatches 82; Indels 7; Gaps 3;

QY 3 ETFLFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKA 62
DB 11 ETFLFTSESVEGHPDKLCDOISDAVLDALEQDPDSKVACETCTKTNLVWVGEITTKA 70

QY 63 NVDYEKIVRVTTCRNIGFVSNVDGLDADNCKVLNIEQQSPDIAQGVHGLTKRPEEIGAG 122
DB 71 QLDYQKIIIRDYTKHIGYDDSEKFDYKTCNVLVAIEQQSPDIAQGL--HYEKALEBLGAG 128

QY 123 DQGHMFGYATDETEPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVYYNDNG 182
DB 129 DQGHMFGYATDETEPELMPLSHVLATKLGARLTVVRKNGTCPLWRPDGKTQVTVYYNDNG 188

QY 183 AMYPVRVHTVLISTQHDVTNDEIAADLKEHVIKPVIPEKYLDKTIIFHLNPSGRFVIG 242
DB 189 AVIPKRVDTTIVISTQHDDEEVLCDMDRALKEKVIKAVVPAKYLDDEDTIYHLQPSGRFVIG 248

QY 243 GPHGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDPYTKVDKRSAGYIVRQAASIVASGLARR 302
DB 249 GPHGDAGLTGRKIIIDTYGCGWGAHGGGAFSGKDPYTKVDKRSAAAYAAARWAKSLVTAGLAKR 308

QY 303 CIVQVSYAIGVPEPLSVFVDYTGCTGKHDKKEILNIVKENPDRPFGMISINLDRKGGNNR 362
DB 309 ALVQPSYAIGVAEPTSIYIDTYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLAR---PI 365
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; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6821:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 404 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...404
; SEQUENCE DESCRIPTION: SEQ ID NO: 6821:
US-09-107-532A-6821

Query Match      52.9%; Score 1102; DB 4; Length 404;
Best Local Similarity 57.2%; Pred. No. 5.6e-108;
Matches 223; Conservative 60; Mismatches 93; Indels 14; Gaps 5;

QY 1 MAETFLFTSSEVNEGHDP-KLDCQISDAVLDACLEQDPDSKVACETCTKTNLVMVFEIT 59
DB 7 MVERHLFTSSEVSEHPRIKADQISDAILDALKQDPTARVACETSVTTGLVLFGEIS 66

QY 60 TXANVDYEKIVRTCRNIGFVSNVDGLDADNCKVLNVIEQSPDIAQGVHGLTKRPE-- 117
DB 67 TTAVIDIQVRETIKEIGYTRAKFGDGTAAVLVAIDEQSPDIAQGVDEALEIRDEDK 126

QY 118 -----BIGAGDQGHMFGYATDETPELMPLSHVLATKLGARLTVEVRKNGTCPLRPDQK 172
DB 127 KQVLDIEGAGDQGLMFGFAVDETPELMPLSHVLATKLGARLTVEVRKNGTCPLRPDQK 186

QY 173 VTVEYNDNGAMVPVRVHTVLSTQHDVETVNDDEIAADLKEHVIKPVIPEKYLDKTI 232
DB 187 VTVE-YDDQ--PERVDTIVISTQHDVADNETIRHVDIEKVKEVIPAELLDDQTKY 243

QY 233 LNPGRFVGGPHGDAGLTKRKIIIDTYGNGWAGHGGAFSGKDPKTVDRSGAYIVRQAAK 292
DB 244 INPTGRFVGGPQGDAGLTKRKIIIDTYGNGWAGHGGAFSGKDATKVDRSASAYARIYAK 303

QY 293 SIVASGLARRCIVQVSYAIGVPEPLSVFVDTYGTGKIHKELINIVKENFDRP 352
DB 304 NIVAAGLARKAEVQLAYAGVQVPSISINTFGTVPEELTAARENFDLRPAGIIE 363

QY 353 LDLKRGNNRFLKTAAYGHGREDPDFTWE 382
DB 364 LDLRR---PIYKTAAYGHGRTDVLPE 390

RESULT 10
US-09-543-681A-7130
; Sequence 7130, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
; FILE REFERENCE: 2709, 1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344

; SEQ ID NO 7130
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Proteus mirabilis
; US-09-543-681A-7130

Query Match      52.1%; Score 1086; DB 4; Length 387;
Best Local Similarity 58.2%; Pred. No. 2.6e-106;
Matches 221; Conservative 56; Mismatches 89; Indels 14; Gaps 6;

QY 4 TFLFTSSEVNEGHDPKLCDOISDAVLDACLEQDPDSKVACETCTKTNLVMVFEITTKAN 63
DB 6 THLFTSSEVSEGHDPKADQISDAVLDAILQDPKARVACETVYVTKGMVMVGEITTKAW 65

QY 64 VDEKIVRDTCRNIGFVSNVDGLDADNCKVLNVIEQSPDIAQGVHGLTKRPEIGAGD 123
DB 66 VDIEITRTVREIGYTSMDGFDANCAVISAIGKQSPDINQGV--RADPLEQAGD 122

QY 124 QGHMFGYATDETPELMPLSHVLATKLGARLTVEVRKNGTCPLRPDQKTVVVEYNDNGA 183
DB 123 QGLMFGYATNETDVLMPAPITVAHRLVQROAQVRKNGTLPWLRPDAKSQITTFQYDNN-- 180

QY 184 MYPVRVHTVLSTQHDVETVNDDEIAADLKEHVIKPVIPEKYLDKTIPLHNPESGRFVIG 243
DB 181 --IVGIDAVLSTQHAEDISQKDLHEAVMEBIKIPILPTEWLNQTKYFINPTGRFVIG 238

QY 244 PHGDAGLTKRKIIIDTYGNGWAGHGGAFSGKDPKTVDRSGAYIVRQAAKSIVASGLARRC 303
DB 239 PMGDCGLTKRKIIIDTYGNGWAGHGGAFSGKDPKTVDRSAAYARVAKNIVAAGLADRC 298

QY 304 IVQVSYAIGVPEPLSVFVDTYGTGKIHKELINIVKENFDRP-GMISINLDLKRGNR 362
DB 299 EIQVSYAIGVAEPTSIMVETGTEKIPTSQLILLVREFDLRPYGLIQ-LDLL---HPI 354

QY 363 FLKTAAYGHGREDPDFTWE 382
DB 355 YOKTAAYGHFGR--AEFPWE 372

RESULT 11
US-09-489-039A-11917
; Sequence 11917, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709, 2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 11917
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-11917

Query Match      51.3%; Score 1068.5; DB 4; Length 385;
Best Local Similarity 57.5%; Pred. No. 1.9e-104;
Matches 223; Conservative 54; Mismatches 92; Indels 19; Gaps 8;

QY 6 LFTSSEVNEGHDPKLCDOISDAVLDACLEQDPDSKVACETCTKTNLVMVFEITTKANVD 65
DB 6 LFTSSEVSEGHDPKADQISDAVLDAILQDPKARVACETVYVTKGMVLVGGSIITSAWD 65

QY 66 YEKIVRDTCRNIGFVSNVDGLDADNCKVLNVIEQSPDIAQGVHGLTKRPEEIGAGDQ 125
DB 66 IEEITRTVREIGYVHSDMGFDANCAVLSAIGKQSPDINQGV--RADPLEQAGAGDQ 122

QY 126 HMFYATDETPELMPLSHVLATKLGARLTVEVRKNGTCPLRPDQKTVVVEYNDNGAMV 185
```

Db 123 LMEGYATNETDVLMPAPVYAHRLVQROAEVRKNGTLPWLDPDAKSQVTFQY--DDGKI- 179

QY 186 PVRVHTVLSTQHDFTVTNDEIAADLKEHVIKPVIPEKYLDKTTIPLNPSGRFVIGGPH 245

Db 180 -VGIDAVLSTQHAEDIDQSLQEAVMEEIIKPIPLPTEWLNASTKFFINPTGRFVIGGPM 238

QY 246 GDAGLTGRKIIIDTVGGWAGHGGGAFSGDKPTKVDRSWAYIVROAKSIVASGLARRCIV 305

Db 239 GDCGLTGRKIIIDTVGGWAGHGGGAFSGDKPSKVDRSAAAYAAKYAKNIVAAGLADREI 298

QY 306 QVSYAIGVPEPLSVFVDTYGTGKIHKDKETILNIVKENFDFRP-GMISINLDLXRGGNRFL 364

Db 299 QVSYAIGVAPESIMVETGTETKVPSEQLTLVREFFDLRPYGLIQM-LDLL--HPIYK 354

QY 365 KTAAYGHFCREDPDPFTWEVVVKPLKWEKA 392

Db 355 ETAAYGHFGRE--HFPWE-----KTDKA 375

RESULT 12

US-09-583-110-2778

; Sequence 2778, Application US/09583110

; Patent No. 6699703

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al.

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; FILE REFERENCE: PATH00-07A

; CURRENT APPLICATION NUMBER: US/09/583,110

; CURRENT FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5322

; SEQ ID NO 2778

; LENGTH: 396

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-09-583-110-2778

Query Match 51.0%; Score 1062.5; DB 4; Length 396;

Best Local Similarity 55.9%; Pred. No. 8.4e-104;

Matches 218; Conservative 58; Mismatches 99; Indels 15; Gaps 5;

QY 1 MAETFLTSESVEGHPDKLCDQISDAVLDAEQDPDSKVACETCTKTNLVMVFGEITT 60

Db 1 MSERKLTFTSESVEGHPDKIADQISDAILDALAKDPEAHVAETAAYTGSVHVFGEST 60

QY 61 KANVDYEKIVRDTCTRNIGFVNDVGLDADNCKVLNIEQQSPDIAQGVH-----GHLTK 114

Db 61 NAYVDINRVDRITAEIGYNTNTYGFSAETGVHPSLVQSPDIAQGVNEALEVRGNADQ 120

QY 115 RP-EEIAGDQGHMFGYATDETPELMPLSHVLATKLGARLTVRNKGTCPWLRPDQKTOV 173

Db 121 DPLDLIAGDQGLMFGFAVDETEELMPLIALSHKLVRLAELRKSGETSYLRPDAKSOV 180

QY 174 TVEY-YNDNGAMPVVRVHTVLSTQHDFTVTNDEIAADLKEHVIKPVIPEKYLDKTTI 232

Db 181 TVEYDENDR-----PVRVTVTVSTQHDPEATNEQHIDVIDKVIKEVIFSSYLDKTKFF 236

QY 233 LNPGRFVIGGPHDAGLTGRKIIIDTVGGWAGHGGGAFSGDKPTKVDRSWAYIVRQAAK 292

Db 237 INPTGRFVIGGPQDGLTGRKIIIDTVGGYSHGGGAFSGDKATKVDRSASVAAARYIAK 296

QY 293 SIVASGLARRCIVQVSYAIGVPEPLSVFVDTYGTGKIHKDKETILNIVKENFDFRPGMISIN 352

Db 297 NIYAAGLAKAEVQLAYAIGVAQVPSVRIDTFTGTVAESQLEKAAQIFDLRPAGIIQM 356

QY 353 LDLKRGNNRFLKTAAYGHFGREDPDPFTWE 382

Db 357 LDLKR---PIYRQTSAYGHMGRGTIDILPWE 383

RESULT 13

US-09-107-433-2830

; Sequence 2830, Application US/09107433

; Patent No. 6800744

; GENERAL INFORMATION:

; APPLICANT: Lynn A Doucette-Stamm and David Bush

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE THERAPEUTICS

; NUMBER OF SEQUENCES: 5206

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: GENOME THERAPEUTICS CORPORATION

; STREET: 100 Beaver Street

; CITY: Waltham

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02354

; COMPUTER READABLE FORM:

; MEDIUM TYPE: CD-ROM ISO9660

; COMPUTER: <Unknown>

; OPERATING SYSTEM: <Unknown>

; SOFTWARE: <Unknown>

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/107,433

; FILING DATE: 30-Jun-1998

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/ 085131

; FILING DATE: May 12, 1998

; APPLICATION NUMBER: 60/051553

; FILING DATE: July 2, 1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Ariniello, Pamela Deneke

; REGISTRATION NUMBER: 40,489

; REFERENCE/DOCKET NUMBER: GTC-011

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (781)893-5007

; TELEFAX: (781)893-8277

; INFORMATION FOR SEQ ID NO: 2830:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 405 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; HYPOTHETICAL: YES

; ORIGINAL SOURCE:

; ORGANISM: Streptococcus pneumoniae

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (8) LOCATION 1...405

; SEQUENCE DESCRIPTION: SEQ ID NO: 2830:

US-09-107-433-2830

Query Match 51.0%; Score 1062.5; DB 4; Length 405;

Best Local Similarity 55.9%; Pred. No. 8.7e-104;

Matches 218; Conservative 58; Mismatches 99; Indels 15; Gaps 5;

QY 1 MAETFLTSESVEGHPDKLCDQISDAVLDAEQDPDSKVACETCTKTNLVMVFGEITT 60

Db 10 MSERKLTFTSESVEGHPDKIADQISDAILDALAKDPEAHVAETAAYTGSVHVFGEST 69

QY 61 KANVDYEKIVRDTCTRNIGFVNDVGLDADNCKVLNIEQQSPDIAQGVH-----GHLTK 114

Db 70 NAYVDINRVDRITAEIGYNTNTYGFSAETGVHPSLVQSPDIAQGVNEALEVRGNADQ 129

QY 115 RP-EEIAGDQGHMFGYATDETPELMPLSHVLATKLGARLTVRNKGTCPWLRPDQKTOV 173

Db 130 DPLDLIAGDQGLMFGFAVDETEELMPLIALSHKLVRLAELRKSGETSYLRPDAKSOV 189

QY 174 TVEY-YNDNGAMPVVRVHTVLSTQHDFTVTNDEIAADLKEHVIKPVIPEKYLDKTTI 232

Db 190 TVEYDENDR----PVRVDTVVIHQHDPPEATNEQIHQVDIKVKEIVPSSYLDDTKTFF 245
QY 233 LNPGRFVIGPGHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPKTVKDRSGAYIVRQAAK 292
Db 246 INPTGRFVIGPGQDGLTGRKIIIDTYGYSRHGGGAFSGKATKVDRSASVAARYIAK 305
QY 293 SIVASGLARRCIVQVSYAIGVPEPLSVFVDTYGTGKHDKKEILNIYKENVDFRPGMISIN 352
Db 306 NIVAAGLAKAEVQLAYAIGVAPVSVRIIDTGTGTVAESQLEKAAQRIIDLPAQIOM 365
QY 353 LDLKRGNNRFLKTAAYGHGREDPDFTWE 382
Db 366 LDLKR----PIYRQTSAYGHMGRTDIDLPE 392

RESULT 14

US-09-273-686-2

; Sequence 2, Application US/09273686

; Patent No. 6228625

; GENERAL INFORMATION:

; APPLICANT: Zalacain, Magdalena

; APPLICANT: Burnham, Martin K. R.

; APPLICANT: Biswas, Sanjoy

; APPLICANT: Brown, James

; APPLICANT: Ingraham, Karen, A.

; APPLICANT: Chalker, Alison F.

; APPLICANT: So, Chi Y.

; APPLICANT: Holmes, David J.

; APPLICANT: Van Horn, Stephanie

; APPLICANT: Warren, Richard L.

; FILE OF INVENTION: metK

; CURRENT APPLICATION NUMBER: US/09/273,686

; EARLIER FILING DATE: 1999-03-22

; EARLIER APPLICATION NUMBER: 60/106,767

; EARLIER FILING DATE: 1998-11-03

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 396

; TYPE: PR

; ORGANISM: Streptococcus pneumoniae

US-09-273-686-2

Query Match 51.0%; Score 1061.5; DB 3; Length 396;

Best Local Similarity 55.9%; Pred. No. 1.1e-103;

Matches 218; Conservative 58; Mismatches 99; Indels 15; Gaps 5;

QY 1 MAETFLTSESNEGHDPKLCDOISDAVLDAQLEQDPDSKVACETCTKTNLMVVFGEIT 60
Db 1 MSERKULTSESNEGHDPKLCDOISDAVLDAQLEQDPDSKVACETCTKTNLMVVFGEIT 60
QY 61 KANVDYKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQOQSPDIAQGVH-----GHLTK 114
Db 61 NAVVDINRVVDTTAEIGYNTVEGFSAEVTGVHPSLVEQSPDIAQGVNEALEVRGNADQ 120
QY 115 RP-EEGAGQGHMFGYATDETPELPLSHVLATKLGARLTVKNGTCFPLRPDQKTV 173
Db 121 DPLDLGAGDQGLMFGFVADTEBELPLPLSHLIRLAEKRSGEISYLRPDQKTV 180
QY 174 TVEY-YNNDGAMPVVRVHTVLSTQHDVTNDEIAADLKEHVIKPVIPEKYLDEKTIHF 232
Db 181 TVEYDENDR----PVRVDTVVIHQHDPPEATNEQIHQVDIKVKEIVPSSYLDDTKTFF 236
QY 233 LNPGRFVIGPGHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPKTVKDRSGAYIVRQAAK 292
Db 237 INPTGRFVIGPGQDGLTGRKIIIDTYGYSRHGGGAFSGKATKVDRSASVAARYIAK 296
QY 293 SIVASGLARRCIVQVSYAIGVPEPLSVFVDTYGTGKHDKKEILNIYKENVDFRPGMISIN 352
Db 297 NIVAAGLAKAEVQLAYAIGVAPVSVRIIDTGTGTVAESQLEKAAQRIIDLPAQIOM 356
QY 353 LDLKRGNNRFLKTAAYGHGREDPDFTWE 382

Db 357 LDLKR----PIYRQTSAYGHMGRTDIDLPE 383

RESULT 15

US-09-328-352-6660

; Sequence 6660, Application US/09328352

; Patent No. 6562958

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: GTC99-03PA

; CURRENT APPLICATION NUMBER: US/09/328,352

; CURRENT FILING DATE: 1999-06-04

; NUMBER OF SEQ ID NOS: 8252

; SEQ ID NO 6660

; LENGTH: 395

; TYPE: PR

; ORGANISM: Acinetobacter baumannii

US-09-328-352-6660

Query Match 50.6%; Score 1055; DB 4; Length 395;

Best Local Similarity 54.9%; Pred. No. 5.2e-103;

Matches 211; Conservative 61; Mismatches 100; Indels 12; Gaps 5;

QY 1 MAETFLTSESNEGHDPKLCDOISDAVLDAQLEQDPDSKVACETCTKTNLMVVFGEIT 60
Db 8 MREYAVFTSESNEGHDPKLCDOISDAVLDAQLEQDPDSKVACETCTKTNLMVVFGEIT 67
QY 61 KANVDYKIVRDTCRNIGFVSNVDGLDADNCKVLVNIQOQSPDIAQGVHGLTKRPEEIG 120
Db 68 TANIDVEAVVROTGVNGIGYHSDLGFDGSTCAVINMIGKQSPDIAQGVHGLTKRPEEIG 124
QY 121 AGDQGHMFGYATDETPELPLSHVLATKLGARLTVKNGTCFPLRPDQKTVTVYVND 180
Db 125 AGDQGLMFGYASRETDLVMPAPISYAHRLMERQAEILRRSGALPWLPRDAKSQVTFAY--E 182
QY 181 NGAMPVVRVHTVLSTQHDVTNDEIAADLKEHVIKPVIPEKYLDEKTIHFILNPSGRFV 240
Db 183 NGK--FVRLDAVVLSTQHDPEITQQLKEAVIEEIKPIIPAEHFAATKFIHNPFGMFV 240
QY 241 IGGPHGDAGLTGRKIIIDTYGGWGAHGGGAFSGKDPKTVKDRSGAYIVRQAAKSIVASGLA 300
Db 241 IGGPVGDGCLTGRKIIIDTYGGWGAHGGGAFSGKDPKTVKDRSGAYIVRQAAKSIVASGLA 300
QY 301 RCTIVQVSYAIGVPEPLSVFVDTYGTGKHDKKEILNIYKENVDFRPGMISINLDKRGNN 360
Db 301 DRCEIQVSYAIGVAPVSVRIIDTGTGTVAESQLEKAAQRIIDLPAQIOM--- 357
QY 361 NRFLKTAAYGHGREDPD--FTWE 382
Db 358 PMYKQTAAYGHGREGSDTAFTWE 381

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